

XX
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 PD 18-APR-1991.
 PR XX
 PR 25-SEP-1990; 90WO-US05454.
 PR XX
 PR 26-SEP-1990; 89US-0412745.
 PA 90US-0912349.
 PA XX
 TCELLTM) T CELL SCI INC.
 PA JOHN HOPKINS UNIVERSITY
 PA (BRIGH-) BRIGHAM AND WOMEN'S HOSPITAL.
 XX
 PI Fearon DT, Klickstein LB, Wong WW, Carson GR, Hoh M, Concino MF;
 PI Makrides SC, Marsh HC;
 DR WPI; 1991-132854/18.
 DR P-PSDB; AAQ11610.
 XX
 PT Human complement receptor type 1 gene, encoded proteins and
 PT fragments - for treatment of immune disorders, myocardial infarct,
 PT damage due to inflammation and in treatment of thrombosis
 XX
 PS Claim 1; Fig 1; 23pp; English.
 XX
 This sequence is a composite of sequences isolated as lambda clones
 CC H10.3, T09.1, J3.1 and H7.1. The clones were present in the
 CC specifically primed lambda gt11 cDNA library (Lambda HH) which was
 CC prepared with cDNA synthesised from poly(A)+ RNA from DMSO induced
 CC HL-60 cells. The library was screened using probes CR1-1, CR-2 and
 CC CR1-4 (see Wong WW et al., 1995, Proc. Natl. Acad. Sci. USA, 82:7711)
 CC and probe CR1-18 (corresponding to nucleotides 101-352 of this
 CC sequence). There are four direct, long homologous repeats of 45bp,
 CC each comprising 7 short consensus repeats. Nucleotides 28-1533 are
 CC also claimed separately.
 See also AAQ1163.
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 AC AAZ38150;
 XX
 DT 22-FEB-2000 (first entry)
 XX
 DE Human C3b/c4b receptor (CR1) protein encoding DNA.
 XX
 KW C3B/C4B receptor; CR1 protein; cell-surface protein; erythrocyte; human;
 KW complement regulatory activity; complement pathway enzyme; tissue damage;
 KW reperfusion injury; Arthus reaction; myocardial infarct; inflammation;
 KW heart condition; autoimmune disorder; diagnostic; ss.
 OS Homo sapiens.
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 PN 055981481-A.
 XX
 PD 09-NOV-1999.
 XX
 PR 01-APR-1988; 88US-0175532.
 PF 06-JUN-1995; 95US-0470652.
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 PR 03-APR-1989; 88US-0332865.
 PR 06-DEC-1974; 74US-0350238.
 PR 24-FEB-1993; 93US-0326134.
 PR 09-NOV-1999.
 XX
 PA (NYJO) UNIV JOHNS HOPKINS.
 PA (BGHM) BRIGHAM & WOMENS HOSPITAL.
 PA (AVAN-) AVANT IMMUNOTHERAPEUTICS INC.
 XX
 PI Concino MF, Wong WW, Makrides SC, Klickstein LB, Fearon DT, IP SH;
 PI Marsh HC, Carson GR;
 DR WPI; 1999-633357/54.
 DR P-PSDB; AAY55751.
 XX
 PT A human C3B/C4B receptor (CR1) protein having antiinflammatory and
 PT cardiotact activity -
 XX
 FS Disclosure; fig 1A-P; 87pp; English.
 XX
 The invention relates to a human C3B/C4B receptor (CR1) protein. The CR1
 protein or fragment is expressed as a cell-surface protein on the surface
 of a non-human cell and exhibits a complement regulatory activity of full
 length human CR1 as expressed on erythrocytes. The CR1 function in vivo
 may be mediated through the inhibition of complement pathway enzymes. The
 soluble CR1 protein exhibits a complement regulatory activity, and this
 may be used to prevent reperfusion injury, inhibit Arthus reaction, and
 neutrophil mediated tissue damage, and reduce myocardial infarct size,
 and inflammation. The CR1 protein and its fragments can also be used in
 the treatment of conditions which involve unwanted complement activity,
 e.g. shock lung, tissue damage due to burn, or ischemic heart conditions,
 and autoimmune disorders. CR1 proteins, analogues, derivatives, and anti-
 CR1 antibodies are used in assays, and diagnostics. The present sequence
 represents a DNA encoding the human CR1 protein.
 XX
 Sequence 6951 BP; 1802 A; 1680 C; 1661 G; 1808 T; 0 other;

alignment_scores: 649.50 Length: 148
 Quality: 4.883 Gaps: 2
 Ratio: 89.865 Percent Identity: 81.757
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 AC AAI58380:
 DT 22-OCT-2001 (first entry)
 XX Human polynucleotide SEQ ID NO 583.
 DE Human polynucleotide SEQ ID NO 583.
 KW Human; nootropic; immunosuppressant; cytostatic; gene therapy; cancer;
 KW peripheral nervous system; neuropathy; central nervous system; CNS;
 KW Alzheimer's; Parkinson's disease; Huntington's disease; haemostatic;
 KW anyotrophic lateral sclerosis; Shy-Drager Syndrome; chemotactic;
 KW chemokinetic; thrombolytic; drug screening; arthritis; inflammation;
 KW leukaemia; ss.
 XX Homo sapiens.
 XX WO200153312-21.
 XX PD 26-JUL-2001.
 XX PF 26-DEC-2000; 2000WO-US34263.
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q_name: gb_pr:CHPCRX
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 DEFINITION Pan trogloodytes alternatively spliced CRI (CRI) gene, partial cds.
 ACCESSION L24921
 PROTEIN_ID L24921_1 GI:557726
 KWWORDS alternative splicing product; complement receptor 1.
 SOURCE Pan trogloodytes cDNA to mRNA.
 ORGANISM Pan trogloodytes
 Mammalia; Eutheria; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homidae; Pan.
 REFERENCE 1 (bases 1 to 1985)
 AUTHORS Atkinson,J.P., Shen,X.P., Hourcade,D., Nickells,M.W. and
 TITLE Primary sequence of an alternatively spliced form of CRI. Candidate for the 75,000 M(r) complement receptor expressed on chimpanzee erythrocytes
 J. Immunol. 153 (2), 691-700 (1994)
 MEDLINE 94292799
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 KWWORDS complement receptor 1.
 SOURCE Pan trogloodytes cDNA to mRNA.
 ORGANISM Pan trogloodytes
 Mammalia; Eutheria; Primates; Catarrhini; Homidae; Pan.
 REFERENCE 1 (bases 1 to 6044)
 AUTHORS Atkinson,J.P., Shen,X.P., Hourcade,D., Nickells,M.W. and
 TITLE Primary sequence of an alternatively spliced form of CRI. Candidate for the 75,000 M(r) complement receptor expressed on chimpanzee erythrocytes
 J. Immunol. 153 (2), 691-700 (1994)
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 DEFINITION Chimpanzee complement receptor type one (CRI) mRNA, partial cds.
 ACCESSION L24920
 PROTEIN_ID L24920_1 GI:515164
 KWWORDS complement receptor 1.
 SOURCE Pan trogloodytes cDNA to mRNA.
 ORGANISM Pan trogloodytes
 Mammalia; Eutheria; Primates; Catarrhini; Homidae; Pan.
 REFERENCE 1 (bases 1 to 6044)
 AUTHORS Atkinson,J.P., Shen,X.P., Hourcade,D., Nickells,M.W. and
 TITLE Primary sequence of an alternatively spliced form of CRI. Candidate for the 75,000 M(r) complement receptor expressed on chimpanzee erythrocytes
 J. Immunol. 153 (2), 691-700 (1994)
 MEDLINE 94292799
 ATOMS 1. .1984
 LITERATURE source Location/Qualifiers
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 Percent Similarity: 94.118 Percent Identity: 86.029
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SOURCE	HSCR1RS	linear	PRI	22-MAR-1995
REFERENCE	1	(bases 1 to 2376)		
AUTHORS	Hourcade,D.			
TITLE	Direct Submission			
JOURNAL				
DEFINITION	Human CRL mRNA for C3b/C4b receptor secreted form.			
VERSION	X14362.1	GI:30197		
ACCESSION	X14362	1		
KEYWORDS	alternative splicing; C3b/C4b receptor; complement receptor; receptor.			
ORGANISM	Homo sapiens			
MATERIALS AND METHODS	Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.			
RESULTS				
DISCUSSION	The sequence overlaps with that reported by Klickstein et. al. in J. Exp. Med. 165:1095-1112(1987) x05309 and in J. Exp. Med. 168:1699-1717(1988).			
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Ratio:	5.035		Gaps:	1
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alignment_block:				
US-10-031-904-8 x HSCR1RS	.			

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37:47 2002

Align seg 1/1 to: HSCR1S from: 1 to: 23766

Protocol:	Template:	25 ng
	Primer:	each 1 uM
--	dNTPs:	each 200 uM
	Taq Polymerase:	0.05 units/uL
	Total Vol:	10 uL
Buffer:		
	MgCl₂:	2.5 mM
	KCl:	50 mM
	Tris-HCl:	2.0 mM
	pH:	8.3

Prepared with primer pairs provided by Sandoz, derived from x1436;
-- Washington University/Merck EST sequence.
Location/Qualifiers

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COMMENT JOURNAL

23

Annealing: 62 degrees C for 23 seconds
 Polymerization: 72 degrees C for 30 seconds
 PCR Cycles: 30
 Thermal Cycler: Perkin Elmer 9600